

his

(FILE 'HOME' ENTERED AT 13:50:25 ON 19 JAN 2005)

FILE 'MEDLINE, BIOTECHDS, EMBASE, BIOSIS, SCISEARCH, CANCERLIT, CAPLUS'
ENTERED AT 13:50:46 ON 19 JAN 2005

L1 7627 S MITCHELL L?/AU OR BLANCO M?/AU OR GARCIA-BLANCO M?/AU OR PUTT
L2 119 S L1 AND TRANS-SPLIC?
L3 7 S L2 AND MODIF?

FILE 'STNGUIDE' ENTERED AT 13:53:00 ON 19 JAN 2005

FILE 'MEDLINE, BIOTECHDS, EMBASE, BIOSIS, SCISEARCH, CANCERLIT, CAPLUS'
ENTERED AT 13:54:47 ON 19 JAN 2005

L4 246 S SYNTHETIC NUCLEIC ACID
L5 37 S L4 AND (MODIF? OR METHLYATION OR FLANKING SEQUENCE OR INTERN
L6 0 S L4 AND TRANS-SPLIC?
L7 2 S L4 AND (SPLIC? ACCEPTOR OR SPLIC? SITE OR SPLIC? REGION OR S
L8 2 S L5 AND SPLIC?
L9 31 S SYNTHETIC NUCLEIC ACIDS AND HUMAN
L10 16 DUP REM L9 (15 DUPLICATES REMOVED)
L11 2 S L10 AND ?VIVO?
L12 3508 S TRANS-SPLIC?
L13 3 S L10 AND (MODIF? OR METHLYATION OR FLANKING SEQUENCE)
L14 36 S L4 AND (ACCEPTABLE CARRIER OR COMPOSITION)
L15 8 S L14 AND DRUG

=>

WEST Search History

DATE: Wednesday, January 19, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L1	mittchell-L\$.in. or Blanco-M\$.in. or Garcia-Blanco-M\$.in. or Puttarju-M\$.in.	493
<input type="checkbox"/>	L2	L1 and trans-splic\$	39
<input type="checkbox"/>	L3	synthetic near nucleic acid	2482
<input type="checkbox"/>	L4	10/076248 and modification	1
<input type="checkbox"/>	L5	l3 and (modification or methylation or flanking sequence or internucleoside linkage)	2244
<input type="checkbox"/>	L6	L5 and target binding domain	3
<input type="checkbox"/>	L7	l3 same(modification or methylation or flanking sequence or internucleoside linkage)	167
<input type="checkbox"/>	L8	L7 and (splic\$ acceptor or splic\$ region or splic\$ site or trans-splic\$)	50
<input type="checkbox"/>	L9	L8 and branch point	1
<input type="checkbox"/>	L10	L8 and pyrimidine tract	1
<input type="checkbox"/>	L11	l8 and pre-mRNA	4
<input type="checkbox"/>	L12	l7 and pre-mRNA	8
<input type="checkbox"/>	L13	l1 and modified synthetic nucleic acid	1
<input type="checkbox"/>	L14	l1 and modification	111
<input type="checkbox"/>	L15	l2 and modification	18
<input type="checkbox"/>	L16	synthetic nucleic acid same in vivo	0
<input type="checkbox"/>	L17	l3 same invivo	0
<input type="checkbox"/>	L18	L3 same human	309
<input type="checkbox"/>	L19	L18 same gene therapy	66
<input type="checkbox"/>	L20	L19 same vivo	1
<input type="checkbox"/>	L21	l3 near vivo	7

END OF SEARCH HISTORY

Hit List

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 18 of 18 returned.

☐ 1. Document ID: US 20040248141 A1

Using default format because multiple data bases are involved.

L15: Entry 1 of 18

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040248141

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040248141 A1

TITLE: Spliceosome mediated RNA trans-splicing for correction of skin disorders

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Puttaraju, Madaiah	Germantown	MD	US	
Dallinger, Guenter	Linz		AT	
Klausegger, Alfred	Salzburg		AT	
Bauer, Johann	Salzburg		AT	

US-CL-CURRENT: 435/6; 435/320.1, 435/371, 435/69.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 2. Document ID: US 20040214263 A1

L15: Entry 2 of 18

File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040214263

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040214263 A1

TITLE: Spliceosome mediated RNA trans-splicing

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Mansfield, S. Gary	Montgomery Village	MD	US	
Puttaraju, Madaiah	Germantown	MD	US	

Clark, Rebecca	Fort Bragg	NC	US
<u>Garcia-Blanco, Mariano A.</u>	Durham	NC	US

US-CL-CURRENT: 435/69.1; 435/193, 435/320.1, 435/325, 435/455

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 3. Document ID: US 20040180429 A1

L15: Entry 3 of 18

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040180429
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040180429 A1

TITLE: Spliceosome mediated RNA trans-splicing in stem cells

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Englehardt, John	Iowa City	IA	US	
Liu, Xiao Ming	Iowa City	IA	US	

US-CL-CURRENT: 435/366; 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 4. Document ID: US 20040132181 A1

L15: Entry 4 of 18

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132181
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040132181 A1

TITLE: Trans-splicing mediated photodynamic therapy

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Otto, Edward	Great Falls	VA	US	
Merril, Carl R.	Bethesda	MD	US	

US-CL-CURRENT: 435/325

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 5. Document ID: US 20040126774 A1

L15: Entry 5 of 18

File: PGPB

Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040126774

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040126774 A1

TITLE: Correction of factor VIII genetic defects using spliceosome mediated RNA trans splicing

PUBLICATION-DATE: July 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Mansfield, S. Gary	Montgomery Village	MD	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/372, 435/69.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 6. Document ID: US 20040058344 A1

L15: Entry 6 of 18

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040058344

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040058344 A1

TITLE: Trans-splicing mediated imaging of gene expression

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Puttaraju, M.	Germantown	MD	US	
Mansfield, S. Gary	Montgomery Village	MD	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/455, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 7. Document ID: US 20040038396 A1

L15: Entry 7 of 18

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038396
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040038396 A1

TITLE: Spliceosome mediated RNA trans-splicing for correction of factor VIII
genetic defects

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Mansfield, S. Gary	Montgomery Village	MD	US	

US-CL-CURRENT: 435/325

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 8. Document ID: US 20040018622 A1

L15: Entry 8 of 18

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040018622
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040018622 A1

TITLE: Spliceosome mediated RNA trans-splicing for correction of skin disorders

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Puttaraju, Madaiah	Germantown	MD	US	
Dallinger, Guenter	Linz		AT	
Klausegger, Alfred	Salzburg		AT	
Bauer, Johann	Salzburg		AT	

US-CL-CURRENT: 435/371; 424/93.21, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 9. Document ID: US 20030204861 A1

L15: Entry 9 of 18

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204861
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030204861 A1

TITLE: Transgenic animal model for spliceosome-mediated RNA trans-splicing

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Puttaraju, Madaiah	Germantown	MD	US	
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
Engelhardt, John F.	Iowa City	IA	US	
Liu, Xiaoming	Iowa City	IA	US	

US-CL-CURRENT: 800/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 10. Document ID: US 20030153054 A1

L15: Entry 10 of 18

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030153054

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030153054 A1

TITLE: Methods and compositions for use in spliceosome mediated RNA trans-splicing

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
<u>Garcia-Blanco, Mariano A.</u>	Durham	NC	US	
Puttaraju, Madaiah	Germantown	MD	US	

US-CL-CURRENT: 435/91.2; 435/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 11. Document ID: US 20030148937 A1

L15: Entry 11 of 18

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148937

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030148937 A1

TITLE: Methods and compositions for use in spliceosome mediated RNA trans-splicing

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mansfield, S. Gary	Durham	NC	US	
<u>Mitchell, Lloyd G.</u>	Durham	NC	US	
<u>Garcia-Blanco, Mariano A.</u>	Durham	NC	US	
Walsh, Christopher E.	Chapel Hill	NC	US	
Chao, Hengjun	Carboro	NC	US	

US-CL-CURRENT: 514/12; 435/325, 435/6, 530/383

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 12. Document ID: US 20030077754 A1

L15: Entry 12 of 18

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030077754

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030077754 A1

TITLE: Methods and compositions for use in spliceosome mediated RNA trans-splicing

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Durham	NC	US	
<u>Garcia-Blanco, Mariano A.</u>	Durham	NC	US	
Puttaraju, Madaiah	Durham	NC	US	
Mansfield, S. Gary	Durham	NC	US	

US-CL-CURRENT: 435/69.7; 435/183, 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 13. Document ID: US 20030027250 A1

L15: Entry 13 of 18

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027250

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027250 A1

TITLE: Methods and compositions for use in spliceosome mediated RNA trans-splicing

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Durham	NC	US	

<u>Garcia-Blanco, Mariano A.</u>	Durham	NC	US
Baker, Carl C.	Potomac	MD	US
Puttaraju, Madaiah	Durham	NC	US

US-CL-CURRENT: [435/69.1](#); [435/325](#), [435/456](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 14. Document ID: US 20020193580 A1

L15: Entry 14 of 18

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020193580

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020193580 A1

TITLE: Methods and compositions for use in spliceosome mediated RNA trans-splicing

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Bethesda	MD	US	
<u>Garcia-Blanco, Mariano A.</u>	Durham	NC	US	
Puttaraju, Madaiah	Germantown	MD	US	

US-CL-CURRENT: [536/23.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 15. Document ID: US 20020115207 A1

L15: Entry 15 of 18

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115207

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115207 A1

TITLE: Methods and compositions for use in spliceosome mediated RNA trans-splicing

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Mitchell, Lloyd G.</u>	Durham	NC	US	
<u>Garcia-Blanco, Mariano A.</u>	Durham	NC	US	
Puttaraju, Madaiah	Durham	NC	US	
Mansfield, S. Gary	Durham	NC	US	

US-CL-CURRENT: [435/325](#); [435/320.1](#), [536/23.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 16. Document ID: US 6280978 B1

L15: Entry 16 of 18

File: USPT

Aug 28, 2001

US-PAT-NO: 6280978

DOCUMENT-IDENTIFIER: US 6280978 B1

TITLE: Methods and compositions for use in spliceosome mediated RNA trans-splicing

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Mitchell; Lloyd G.</u>	Durham	NC		
<u>Garcia-Blanco; Mariano A.</u>	Durham	NC		

US-CL-CURRENT: 435/91.3; 435/320.1, 435/325, 435/455, 435/91.31, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 17. Document ID: US 6083702 A

L15: Entry 17 of 18

File: USPT

Jul 4, 2000

US-PAT-NO: 6083702

DOCUMENT-IDENTIFIER: US 6083702 A

TITLE: Methods and compositions for use in spliceosome mediated RNA trans-splicing

DATE-ISSUED: July 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Mitchell; Lloyd G.</u>	Durham	NC		
<u>Garcia-Blanco; Mariano A.</u>	Durham	NC		

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/455, 435/91.1, 514/44, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 18. Document ID: US 6013487 A

L15: Entry 18 of 18

File: USPT

Jan 11, 2000

US-PAT-NO: 6013487

DOCUMENT-IDENTIFIER: US 6013487 A

TITLE: Chimeric RNA molecules generated by trans-splicing

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Mitchell; Lloyd G.</u>	Durham	NC	27701	

US-CL-CURRENT: 435/91.3; 435/320.1, 435/325, 435/455, 435/91.31, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Term	Documents
MODIFICATION	908324
MODIFICATIONS	2244455
(2 AND MODIFICATION).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	18
(L2 AND MODIFICATION).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	18

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)**End of Result Set**

Generate Collection

Print

L8: Entry 50 of 50

File: USPT

Jan 30, 1996

DOCUMENT-IDENTIFIER: US 5487993 A

TITLE: Direct cloning of PCR amplified nucleic acids

Detailed Description Text (7):

Gene: a nucleic acid whose nucleotide sequence codes for a RNA, DNA or polypeptide molecule. Genes may uninterrupted sequences of nucleotides or they may include such intervening segments as introns, promoter regions, splicing sites and repetitive sequences. A gene can be either RNA or DNA.

Detailed Description Text (19):

However, the invention also contemplates any desired target fragment, such as a nucleic acid having an intervening sequence, a promoter, a regulatory sequence, a repetitive sequence, a flanking sequence, or a synthetic nucleic acid.

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)